

REMARKS

Claims 1-6, 8-16 and 18-21 are pending in this application. By this Amendment, claims 1, 6, 11 and 16 are amended. Various amendments are made to the claims for clarity and are unrelated to issues of patentability.

The Office Action rejects claims 1-3, 5-6, 8-13, 15-16 and 18-21 under 35 U.S.C. §102(e) over U.S. Patent 6,804,246 to Petersen et al. (hereafter Petersen). The Office Action also rejects claims 4 and 14 under 35 U.S.C. §103(a) over Peterson in view of U.S. Patent 6,628,641 to Strawczynski. The rejections are respectfully traversed with respect to the pending claims.

Independent claim 1 recites an apparatus for transmitting ATM cells including an AAL transmitter, an AAL receiver and an AAL2 transmitter. The AAL transmitter that generates one or more AAL cells by multiplexing N AAL packets, generated by adding an AAL packet header to an i^{th} data subset of an original user data set, the AAL transmitter residing in a channel card, the channel card further including an AAL receiver and a CPU. The AAL receiver that receives the one or more AAL cells generated by the AAL transmitter and that restores the original user data set by demultiplexing the N AAL packets included in the one or more AAL cells, the AAL receiver residing in an AAL2 processor. Independent claim 1 further recites that the AAL2 transmitter that receives the restored original user data set and from the AAL receiver that generates one or more of the AAL2 cells by multiplexing M common part sublayer (CPS) packets, generated by adding a CPS packet header to a j^{th} data subset of the restored original user data set, the AAL2 transmitter residing in the AAL2 processor.

The applied references do not teach or suggest at least these features of independent claim 1. More specifically, the Office Action does not suggest specific relationships of the AAL transmitter, the AAL receiver and the AAL2 transmitter of the claimed apparatus of independent claim 1. For example, features cited on pages 2-3 of the Office Action do not suggest features of the claimed apparatus. Rather, the cited sections relate to a base station (BS) 42 and a BSC 44. That is, Petersen discloses multiplexing and demultiplexing in both the BS 42 and the BSC 44. See, for example, col. 11, lines 50-58 relating to multiplexing in base station 42 and demultiplexing payloads in BSC 44. See also FIGs. 7A, 7B. However, Petersen does not suggest the multiplexing and demultiplexing in an apparatus for transmitting as recited in independent claim 1.

More specifically, Petersen does not teach or suggest an AAL receiver that receives the one or more AAL cells generated by the AAL transmitter and that restores the original user data set by demultiplexing the N AAL packets included in the one or more AAL cells. The Office Action cites Petersen's CHU 42-32 as corresponding to the claimed AAL receiver. However, this does not teach an AAL receiver that receives the one or more AAL cells generated by the AAL transmitter and that restores the original user data set by demultiplexing the N AAL packets included in the one or more AAL cells. Petersen's CHU 42-32 does not demultiplex AAL packets included in an AAL cell (when receiving the AAL packets by an AAL transmitter).

Furthermore, Petersen does not teach or suggest an AAL2 transmitter that receives the restored original user data set from the AAL receiver and that generates one or more of the AAL2 cells by multiplexing M CPS packets, generated by adding a CPS packet header to a jth

data subset of the restored original user data set. The Office Action cites Petersen's CHU 42-32 as corresponding to the claimed AAL2 transmitter. However, this does not teach or suggest an AAL2 transmitter that receives the restored original user data set from the AAL receiver and that generates one or more of the AAL2 cells. Petersen's CHU 42-32 does not multiplex CPS packets (when receiving the restored original user data set from an AAL receiver).

For at least the reasons set forth above, Petersen does not teach or suggest all the features of independent claim 1. Thus, independent claim 1 defines patentable subject matter.

Independent claim 6 recites an apparatus for receiving ATM cells including an AAL2 receiver, an AAL transmitter and an AAL receiver. Independent claim 6 also recites that the AAL2 receiver that receives one or more of the AAL2 cells, containing common part sublayer (CPS) packets corresponding to an original user data set, and restores the original user data set by demultiplexing the CPS packets, the AAL2 receiver residing in an AAL2 processor. The AAL transmitter receives the restored original user data set from the AAL2 receiver and that generates one or more AAL cells by multiplexing N AAL packets, generated by adding an AAL packet header to an i^{th} data subset of the restored original user data set, the AAL transmitter residing in the AAL2 processor. Independent claim 6 also recites that the AAL receiver receives the one or more AAL cells from the AAL transmitter and that restores the original user data set by demultiplexing the N AAL packets, the AAL receiver residing in a selector, the selector further including a second AAL transmitter and a CPU.

For at least similar reasons as set forth above, the applied references do not teach or suggest at least these features of independent claim 6. That is, Petersen does not suggest an AAL

transmitter that receives the restored original user data set from the AAL2 receiver. Petersen also does not suggest an AAL receiver that receives the one or more AAL cells from the AAL transmitter. Thus, independent claim 6 defines patentable subject matter.

Independent claim 11 recites generating N AAL packets by adding an AAL packet header to an i^{th} data subset of an original user data set, the generating being performed in an AAL transmitter residing in a channel card, the channel card further including an AAL receiver and a CPU. Independent claim 11 also recites generating one or more AAL cells by multiplexing the generated N AAL packets in the AAL transmitter of the channel card, and receiving the original user data set at an AAL receiver. Still further, independent claim 11 recites restoring the received original user data set by demultiplexing the N AAL packets included in the AAL cells, the restoring being performed by the AAL receiver residing in an AAL2 processor, and receiving the restored original user data set at an AAL2 transmitter. Additionally, independent claim 11 recites generating M common part sublayer (CPS) packets by adding a CPS packet header to a j^{th} data subset of the restored original user data set by the AAL2 transmitter residing in the AAL2 processor, generating one or more of the AAL2 cells by multiplexing the M CPS packets by the AAL2 transmitter residing in the AAL2 processor, and transmitting the AAL2 cells to a receiving system through a connection line.

For at least similar reasons as set forth above, the applied references do not teach or suggest at least these features of independent claim 11. Thus, independent claim 11 defines patentable subject matter.

Independent claim 16 recites receiving one or more AAL2 cells containing common part sublayer (CPS) packets corresponding to an original user data set, the receiving being performed in an AAL2 receiver residing in an AAL2 processor. Independent claim 16 recites restoring the original user data set by demultiplexing the CPS packets by the receiver in the AAL2 processor, and receiving the restored original user data set at an AAL transmitter. Independent claim 16 also recites generating N AAL packets by adding an AAL packet header to an i^{th} data subset of the restored original user data set, the generating being performed by the AAL transmitter residing in the AAL2 processor, generating one or more AAL cells by multiplexing the N AAL packets by the AAL transmitter residing in the AAL2 processor, and receiving the one or more AAL cells at an AAL receiver. Independent claim 16 also recites restoring the original user data set by demultiplexing the N AAL packets included in the one or more AAL cells, the restoring being performed by the AAL receiver residing in a selector, the selector further including a second AAL transmitter and a CPU.

For at least similar reasons as set forth above, the applied references do not teach or suggest at least these features of independent claim 16. Thus, independent claim 16 defines patentable subject matter.

Accordingly, each of independent claims 1, 6, 11 and 16 defines patentable subject matter. Each of the dependent claims depends from one of the independent claims and therefore defines patentable subject matter at least for this reason. In addition, the dependent claims recite features that further and independently distinguish over the applied references.

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CONCLUSION

In view of the foregoing, it is respectfully submitted that the application is in condition for allowance. Favorable consideration and prompt allowance of claims 1-6, 8-16 and 18-21 are earnestly solicited. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney at the telephone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this, concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,
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